

hydrogens in the alkylene chain may optionally be substituted by any one of C₁-C₆ alkyl, C₁-C₆ alkoxy, or hydroxy; or
one or more of the methylene groups may optionally be substituted by a heteroatom selected from O, N or S;

R¹ is selected from hydrogen, a branched or straight C₁-C₆ alkyl, C₂-C₆ alkenyl, C₃-C₈ cycloalkyl, C₄-C₈ (alkyl-cycloalkyl) wherein the alkyl is a C₁-C₂ alkyl and the cycloalkyl is a C₃-C₆ cycloalkyl;

R² is selected from any of:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl, C₂-C₆ alkenyl or C₂-C₆ alkynyl;
- (iii) -[(CH₂)_q-aryl], wherein the aryl may optionally be substituted by 1 or 2 substituents Y, wherein each Y is as defined below; and wherein q is an integer from 0 to 3;
- (iv) -[(CH₂)_r-heteroaryl] wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O and wherein the heteroaryl may be substituted by 1 or 2 substituents Y, wherein each Y is as defined below; and wherein r is an integer from 0 to 3;
- (v) C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls, where each heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (vi) C₆-C₁₀ aryl, optionally and independently substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O and wherein the heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (vii) a heteroaryl having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; wherein the aryl and heteroaryl may optionally and

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independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;

or R¹ and R² may optionally form a heterocyclic ring;

R³ is selected from any one of:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl, C₂-C₆ alkenyl or C₂-C₆ alkynyl;
- (iii) -[(CH₂)_q-aryl] wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (iv) a heteroaryl-(C₅-C₁₀alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (v) a C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (vi) -[(C₃-C₆ cycloalkyl)-(CH₂)_q] wherein q is an integer from 1 to 3;

R⁴ is selected from:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl, C₂-C₆ alkenyl or C₂-C₆ alkynyl;
- (iii) -[(CH₂)_q-aryl] wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein

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the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;

- (iv) heteroaryl-(C₅-C₁₀ alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (v) a C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O;
and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (vi) a C₆-C₁₀ aryl, optionally and independently substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (vii) a heteroaryl having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein Y is as defined below;

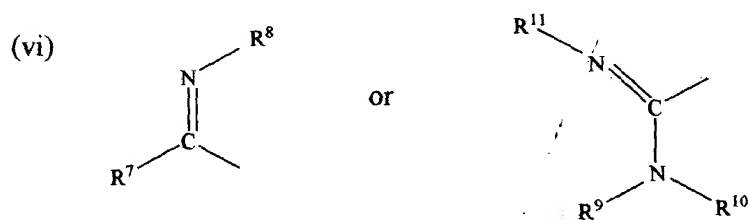
R⁵ is selected from:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl, C₂-C₆ alkenyl or C₂-C₆ alkynyl;
- (iii) -[(CH₂)_q-aryl] wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- (iv) a heteroaryl-(C₅-C₁₀ alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl

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and heteroaryl may optionally and independently be substituted 1 or 2 substituents Y, wherein each Y is as defined below;

- (v) a C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;



wherein R⁷, R⁸, R⁹, R¹⁰ and R¹¹ are each and independently selected from:

- hydrogen;
- a straight or branched C₁-C₆ alkyl, C₂-C₆ alkenyl or C₂-C₆ alkynyl;
- [(CH₂)_q-aryl] wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of the S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;
- a heteroaryl-(C₅-C₁₀/alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted 1 or 2 substituents Y, wherein each Y is as defined below;
- a C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted 1 or 2 substituents Y, wherein each Y is as defined below;

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- (f) a C₆-C₁₀ aryl, optionally and independently substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined below;

or R⁴ and R⁵ may optionally form a heterocyclic ring;

Y is each and independently selected from any of: hydrogen, CH₃; -(CH₂)_{p1}CF₃; halogen; C₁-C₃ alkoxy; hydroxy; -NO₂; -OCF₃; -CONR^aR^b; -COOR^a; -COR^a; -(CH₂)_{p2}NR^aR^b; -(CH₂)_{p3}CH₃; (CH₂)_{p4}SOR^aR^b; -(CH₂)_{p5}SO₂R^a; -(CH₂)_{p6}SO₂NR^a; C₄-C₈(alkyl-cycloalkyl) wherein the alkyl is a C₁-C₂ alkyl, and the cycloalkyl is a C₃-C₆ cycloalkyl; 1 or 2 heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and oxides selected from N-oxides or sulfoxides; and wherein:

R^a and R^b are each and independently selected from hydrogen, a branched or straight C₁-C₆ alkyl, a C₁-C₆ alkenyl, a C₃-C₈ cycloalkyl; and wherein:

p¹, p², p³, p⁴, p⁵ and p⁶ are each and independently 0, 1 or 2;

as well as pharmaceutically acceptable salts, isomers, hydrates, and isoforms thereof,

with the proviso that when R¹=R³=R⁴=R⁵=H, then R² is not hydrogen or a straight C₁-C₆ alkyl and when R²=R³=R⁴=R⁵=H then R¹ is not hydrogen or a straight C₁-C₆ alkyl.

30. (Once amended) A compound according to claim 29, wherein:
m=n=1;

R¹ is selected from:

- (i) hydrogen;
- (ii) a branched or straight C₁-C₆ alkyl; and

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(iii) a C₃-C₈ cycloalkyl;

R² is selected from any of:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl;
- (iii) -[(CH₂)_q-aryl], wherein the aryl may optionally be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29; and wherein q is an integer from 0 to 3;
- (iv) -[(CH₂)_r-heteroaryl] wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O and wherein the heteroaryl may optionally be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29; and wherein r is an integer from 0 to 3;
- (v) a C₃-C₆ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, where each Y is as defined in claim 29;
- (vi) a C₆-C₁₀ aryl, optionally and independently substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (vii) a heteroaryl having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;

or R¹ and R² may optionally form a heterocyclic ring;

R³ is selected from any one of:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl;
- (iii) -[(CH₂)_q-aryl] wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10

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atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;

- (iv) a heteroaryl-(C₅-C₁₀ alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (v) a C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (vi) $-\text{[(C}_3\text{-C}_6\text{ cycloalkyl)-(CH}_2\text{)}_q\text{]}$ wherein q is an integer from 1 to 3;

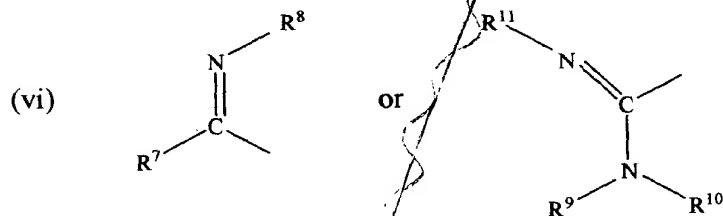
R⁴ is selected from:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl;
- (iii) $-\text{[(CH}_2\text{)}_q\text{-aryl]}$ wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (iv) a heteroaryl-(C₅-C₁₀ alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (v) a C₆-C₁₀ aryl, optionally and independently substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;

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R⁵ is selected from any one of:

- (i) hydrogen;
- (ii) a straight or branched C₁-C₆ alkyl;
- (iii) -[(CH₂)_q-aryl] wherein q is 0 or 1, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (iv) a heteroaryl-C₅-C₁₀ alkyl, wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (v) a C₃-C₆ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;



wherein: R⁷, R⁸, R⁹, R¹⁰, R¹¹ are each and independently selected from:

- (a) hydrogen;
- (b) a straight or branched C₁-C₆ alkyl or C₂-C₆ alkenyl;
- (c) -[(CH₂)_q-aryl] wherein q is an integer from 0 to 3, and wherein the aryl may optionally be substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;

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- (d) a heteroaryl-(C₅-C₁₀ alkyl), wherein the heteroaryl has from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and heteroaryl may optionally and independently be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (e) a C₃-C₁₀ cycloalkyl, optionally comprising one or more unsaturations and optionally substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O; and wherein the aryl and the heteroaryl may optionally and independently be substituted 1 or 2 substituents Y, wherein each Y is as defined in claim 29;
- (f) a C₆-C₁₀ aryl, optionally and independently substituted by one or more heteroaryls having from 5 to 10 atoms, each heteroatom being selected from any of S, N and O, and wherein the heteroaryl may optionally and independently be substituted 1 or 2 substituents Y, wherein each Y is as defined in claim 29;

or R⁴ and R⁵ may form a heterocyclic ring which may optionally and independently be substituted 1 or 2 substituents Y, wherein each Y is as defined in claim 29.

Please add new claims 36-40 as follows:

36. The compound according to claim 30, wherein:

R¹ is a straight or branched C¹-C⁶ alkyl;

R² is a -[(CH₂)_q-aryl], wherein the aryl may optionally be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29; and wherein q is an integer from 0 to 3;

R³ is a -[(CH₂)_q-aryl], wherein the aryl may optionally be substituted by 1 or 2 substituents Y, wherein each Y is as defined in claim 29; and wherein q is an integer from 0 to 3;

R^4 and R^5 are hydrogen or a straight or branched C_1 - C_6 alkyl.

37. The compound of claim 36, wherein Y is each and independently selected from any of: hydrogen, CH_3 ; $-(CH_2)_{p1}CF_3$; halogen; C_1 - C_3 alkoxy; hydroxy; $-NO_2$; $-OCF_3$; $CONR^aR^b$; $-COOR^a$; $-COR^a$; $-(CH_2)_{p2}NR^aR^b$; and $-(CH_2)_{p3}CH_3$; and wherein:

R^a and R^b are each and independently selected from hydrogen, a branched or straight C_1 - C_6 alkyl, a C_1 - C_6 alkenyl, a C_3 - C_8 cycloalkyl; and wherein:

p^1 , p^2 , and p^3 are each and independently 0, 1 or 2.

38. The compound of claim 37, wherein Y is each and independently selected from any of: hydrogen, CH_3 ; $-(CH_2)_{p1}CF_3$; halogen; C_1 - C_3 alkoxy; hydroxy; $-NO_2$; and $-OCF_3$; and wherein p^1 , is 0, 1 or 2.

39. The compound of claim 38, wherein R^4 and R^5 are hydrogen.

40. A compound according to claim 32, wherein said compound is:

